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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711,908		10/12/2004	Paul A. Bogdans	71368-0075	5907	
20915	7590	12/12/2005		EXAMINER		
MCGARR 171 MONR			PHAN, THO GIA			
SUITE 600		NOL, N.W.	ART UNIT	PAPER NUMBER		
GRAND R	APIDS, N	ИI 49503	2821			
				DATE MAILED: 12/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)				
Office Action Summary			1,908	BOGDANS ET AI	L.			
			ner	Art Unit				
		Tho G		2821				
Period fo	The MAILING DATE of this commun or Reply	nication appears on	the cover sheet	with the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINIOR OF THE MINIOR OF THE MONTHS FROM THE MINIOR OF THE MONTHS FROM	MAILING DATE OF s of 37 CFR 1.136(a). In n munication. tatutory period will apply a y will, by statute, cause the	THIS COMMUI o event, however, may nd will expire SIX (6) M examplication to become	NICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	/			
Status								
1)[⊠	Responsive to communication(s) file	ed on 12 October 2	2004.					
′=	•	2b)⊠ This action						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits							
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-8</u> is/are pending in the a 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restri	are withdrawn from						
Applicat	ion Papers							
9)[The specification is objected to by the	e Examiner.						
10)	The drawing(s) filed on is/are	: a) accepted o	r b) Objected	to by the Examiner.				
	Applicant may not request that any object	ection to the drawing	(s) be held in abey	ance. See 37 CFR 1.85(a).				
_	Replacement drawing sheet(s) including	-	•					
11)	The oath or declaration is objected t	o by the Examiner	. Note the attach	ed Office Action or form P	TO-152.			
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmer	ot(s) te of References Cited (PTO-892)		4) 🔲 Intervie	w Summary (PTO-413)				
2)	ce of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date		Paper N	lo(s)/Mail Date If Informal Patent Application (PT	O-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 7-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 7, line 1, the language, "the heat sink" lacks a proper antecedent basis.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solberg et al (6,249,261) in view of Aslan (4,789,869).

Solberg et al in figures 1-7 disclose a mobile antenna comprising a center-fed, broadband, dipole radiator 202, and a coupler 206 assembly for mounting the dipole radiator to a mount 203. Solberg et al have been discussed but fail to teach the power matching circuit comprises a capacitor, the power matching circuit comprises a resistor and a capacitor connected in series/ parallel and a plurality of power matching circuits. However, Aslan in figures 6-8 discloses the power matching circuit comprises a capacitor, the power matching circuit comprises a resistor

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and a capacitor connected in parallel (figure 6). It would have been obvious choice to employ the power matching circuit comprises a capacitor, the power matching circuit comprises a resistor and a capacitor connected in series/parallel and a plurality of power matching circuits into Solberg et al for the purpose of maintaining a balance of current distribution and improving the antenna gain.

5. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Solberg et al modified by Aslan and further-in-view of Podell et al (5,280,412).

Solberg et al modified by Aslan have been discussed above but fail to teach a heat sink assembly. However, Podell et al in figures 1-3 discloses the heat sink assembly 20/20c. It would have been obvious choice to employ the heat sink assembly as taught by Podell et al for the purpose of conducting heat.

Allowable Subject Matter

6. Claims 7-8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Erat, Aslan, Unwin, Kaegebein and Mertel are cited as of interested and illustrated a similar structure to a dipole antenna assembly.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho G. Phan whose telephone number is 571-272-1826. The

examiner can normally be reached on M-F, 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tho G Phan
Primary Examiner
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